

Winbond Microcontrollers supported by Ceibo

DS-51 - In-Circuit Emulator

Standard

Microcontroller	Probe	Adapters	Frequency	Voltage	Features
W78C32C	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E51B	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E52B	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E54B	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E58B	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E516B	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E858	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78C51D	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78C52D	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78C54	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78C58	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78C516	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78C801	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78E365	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle

Note: Probe W78 is based on a Winbond bond-out chip which does not have Port 4 support. Probe C51LV works with standard Winbond devices and it provides Port 4 too but Port 0 and 2 are bus and not I/O.



Wide Supply Voltage Series - 1.8-5.5V

Microcontroller	Probe	Adapters	Frequency	Voltage	Features
W78L32	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78L51	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78L52	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78L54	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78L801	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78LE51	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78LE52	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78LE54	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78LE58	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78LE516	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W78LE812	W78 or C51LV	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle

Note: Probe W78 is based on a Winbond bond-out chip which does not have Port 4 support. Probe C51LV works with standard Winbond devices and it provides Port 4 too but Port 0 and 2 are bus and not I/O.

6 and 12 Clock/Cycle

Microcontroller	Probe	Adapters	Frequency	Voltage	Features
W78ERD2	C51LV	40D, 44Q-P	40MHz	3.3V/5V	6-12 clk / cycle

Note: Probe Probe C51LV works with standard Winbond devices and it provides Port 4 too but Port 0 and 2 are bus and not I/O.



Turbo-51

Microcontroller	Probe	Adapters	Frequency	Voltage	Features
W77C32	W77	40D, 44Q-P	40MHz	3.3V/5V	4 clk / cycle
W77C58	W77	40D, 44Q-P	40MHz	3.3V/5V	4 clk / cycle
W77E58	W77	40D, 44Q-P	40MHz	3.3V/5V	4 clk / cycle
W77LE58	W77	40D, 44Q-P	40MHz	3.3V/5V	4 clk / cycle

Note: Probe W77 is based on a Winbond bond-out chip.

FE-WRD2 - Winbond Dedicated Emulator

Microcontroller	Adapters	Frequency	Voltage	Features
W78ERD2	40D, 44Q-P	40MHz	3.3V/5V	6-12 clk / cycle
W78EXXX	40D, 44Q-P	40MHz	3.3V/5V	12 clk / cycle
W77EXXX	40D, 44Q-P	40MHz	3.3V/5V	4 clk / cycle

Note: FE-WRD2 is a dedicated emulator based on a Winbond standard chips and supports most of Winbond derivatives.

Nomenclature:

Probe: means the emulation module that carries on the particular microprocessor

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